**PROJECT DOCUMENTATION**

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1. **Project Name**

Online store using Js

1. **Work Process**

Here we used different process to construct our Online Store by using Js rather than using conventional PHP and SQL.

Creating a Node server

Understanding requests/Sending responses

Using framework for middleware

Working with Templating Engines

Adding controllers

Connecting Database

Softwares Used:

Node Js

Express Js for framework

EJS as templating engine

MongoDb

Mongoose

1. **Needs**

If you think about what’s important in terms of programming languages, you might come up with some buzzwords like portability, performance, predictability, consistency, and so on. Unfortunately, PHP doesn’t really have any of these characteristics.

PHP is a simple and thin layer language with less variables and certain elementary functions. It is not good for lengthy and complex architectural website.

1. **Solutions**

To overcome the problem we face using PHP we have to look for a new approach.

We think Node Js is one of most useful alternatives. It is a modern language and provides a wide range of new plugins that are designed according to the modern architectural approach.

Combining it with frameworks like Express Js and using Mongo Db as database will work very smoothly.

1. **Benefits**

* Node.js is relatively new. So it provides a wide range of new plugins that are designed according to the modern architectural approach.
* Node.js provides structure in programming which makes it easy to understand and maintain. This facilitates programmers to structure and make their task more organized.
* Node.js is event driven and non-blocking so, speed (performance) is very high and this is the main advantage of using it.
* Node.js can handle concurrent requests more than other web technologies due to its event-driven nature.

1. **Financial Cost**

Since, we have applied the human work force only so no cost has been applied for this model.

1. **Conclusion**

[PHP](https://www.geeksforgeeks.org/php-introduction/) should be used in applications in which client does not have to interact with the server again and again and Node.js should be used for the applications which require a lot of interaction between client and server. In modern websites, there is a lot of interaction between the clients and the server so Node Js is a better option.

Node.js is on a constant development track. This platform also comes with one more advantage. It comprises of all the modern functionalities in one distribution, where there is no fragmentation as such. This stands to be as one of the big advantages for programmers who have to spend zero time on the complete reworking of the code.